

Model: TLLA4G50G-25-60
Low Noise Amplifier
4-50GHz, NF:6.0dB, Gain:25dB, P1dB:12dBm
Feature:

- Ultra Wide Band: 4-50GHz
- Gain: 25dB Typ
- Noise Figure: 12dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	4-50			GHz
Gain	23	25		dB
Gain Flatness			±2.0	dB
Noise Figure		6	8.5	dB
Output P1dB	10	12		dBm
Output IP3		30		dBm
Input VSWR		2	2.5	:1
Output VSWR		2	2.5	:1
DC Voltage	7	12		V DC
DC Supply Current		300		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.4mm Female/2.4mm Female	
DC Bias	Solder Pin	
Size	35.3*40.3*12	mm
Weight	48	g

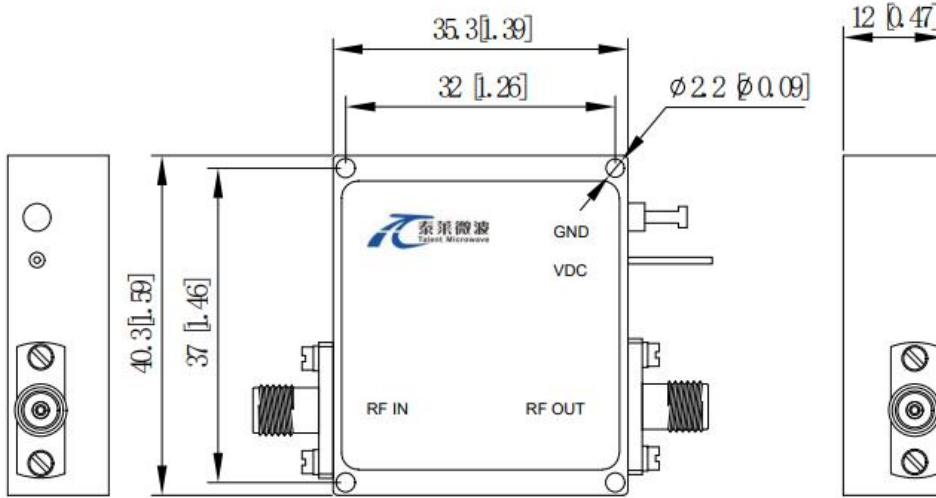
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	0 dBm
ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System
 Benchtop Amplifier**

Outline Drawing:

Unit: mm(inches)



*****Heat Sink Required During Operation**



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-25		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLLA4G50G-25-60	Low Noise Amplifier, 4-50GHz, Noise Figure:6.0dB, Gain:25 dB,P1dB:12dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA4G50G-25-60-HS	Low Noise Amplifier, 4-50GHz, Noise Figure:6.0dB, Gain:25 dB,P1dB:12dBm,+12V DC,With Heatsink	Rev.1.1